

[0300] Example 17: A controlled study was conducted on 16 male patients with average age of 64 years old. Patients were diagnosed with SARS-CoV-2 infection but were showing relatively mild symptoms. Patients were divided into one of two arms. The treatment arm received docetaxel 75 mg/m² IV over 1 hour at the start of the trial, the control arm received standard care. Patients were instructed to go home but return to the hospital if symptoms became worse. Efficacy parameters were defined as 1.) COVID-19 Diagnosis: COVID-19 positive diagnosis was defined as subject exhibiting symptoms of acute respiratory infection, defined as one or more of the following cough, fever (>37.5° C./99.5° F.), shortness of breath, sore throat, and a positive SARS-CoV-2 rtPCR test 2.) COVID-19 Hospitalization defined as confirmed hospitalization due to COVID-19, and 3.) Symptoms Severity of COVID-19 was defined as symptoms severity of COVID-19 using Brescia-COVID Respiratory Severity Scale (BCRSS).

[0301] All subjects were tested and found to be positive for SARS-CoV-2 infection. All subjects were monitored for one month after the initiation of the therapy. 0 of 8 subjects in the docetaxel arm were admitted to the hospital after their first visit. 2 of 8 subjects in the standard care group were admitted to the hospital with an average BCRSS score of 4.5.

[0302] It should be noted that the dosage used in administering embodiments of the compositions can be low and still be effective. A low dosage can be within a range from 1/10x to 1x of the following exemplary dosages listed:

topical skin application of finasteride at 10% (w/w)

oral finasteride at 0.1-10 mg

dutasteride at 0.1 mg/day to 1.0 mg/day

degarelix at 240 mg

oral cannabidiol at 10mg/Kg/day

oral flutamide at 750 mg/day

enzalutamide at 160 mg qd

oral dutasteride at 0.25 mg/day

apalutamide at 60 mg 4 times per day

injection of cyproterone acetate (300 mg).

subcutaneous injection of degarelix (120 mg)

bicalutamide at 50 mg per day

subcutaneous injection of degarelix (120 mg)

oral darolutamide at 300 mg twice daily

abiraterone at 500 mg twice daily

oral nilutamide at 300 mg once daily

docetaxel at 75 mg/m² IV over 1 hour

[0303] However, dosages within a range from 1/10x to 3x of the above identified dosages can be used. Thus, dosages can be within a range from:

topical skin application of finasteride at 1-30% (w/w)

oral finasteride at 0.01-30 mg

dutasteride at 0.1 mg/day to 3.0 mg/day

degarelix at 24 mg-720 mg

oral cannabidiol at 1-30mg/Kg/day

oral flutamide at 75-2,250 mg/day

enzalutamide at 16-480 mg qd

oral dutasteride at 0.025-0.75 mg/day

apalutamide at 6-180 mg 4 times per day

injection of cyproterone acetate (30-900 mg).

subcutaneous injection of degarelix (12-360 mg)

bicalutamide at 5-150 mg per day

subcutaneous injection of degarelix (12-360 mg)

oral darolutamide at 30-900 mg twice daily

abiraterone at 50-1500 mg twice daily

oral nilutamide at 30-900 mg once daily

docetaxel at 7.5-225 mg/m² IV over 1 hour

1-7. (canceled)

8. A method of treating a patient having or suspected of having a viral respiratory infection, the method comprising: administering a composition to the patient, the composition including any one or combination of:
an androgen receptor antagonists or anti-androgen;
an androgen synthesis inhibitor;
an agent that counters the effect of androgens;
a globulin (SHBG) stimulator;
an antigonadotropins;
a mineralocorticoid to suppress androgen production in the adrenal gland;
a glucocorticoid to suppress androgen production in the adrenal gland;
an insulin sensitizing medication; and
vaccine or an immunogen against androstenedione that reduces the level of testosterone or increases estrogen.

9. The method of claim 8, wherein:

the anti-androgen is any one or combination of: cyproterone acetate, megestrol acetate, chlormadinone acetate, spironolactone, medrogestone, oxendolone, osaterone, bifluranol, finasteride, dutasteride, flutamide, bicalutamide, nilutamide, topilutamide, enzalutamide, apalutamide, dienogest, drospirenone, medrogestone, nomegestrol acetate, promegestone, trimegestone, ketoconazole, abiraterone acetate, seviteronel, aminoglutethimide, epristeride, alfaestradiol, isotretinoin, saw palmetto, darolutamide, galeterone, proxalutamide, triptorelin pamoate, allylestrenol, chlormadinone acetate or degarelix;

the agent that counters the effect of androgens is a sex hormone-binding globulin (SHBG) stimulator;

the glucocorticoid is anticorticotropin; and

the insulin sensitizing medication is metformin.

10. The method of claim 8, wherein the administration of the composition involves any one or combination of topical application to the skin, nasal application, sub-lingual application, oral application, via injection, via inhalation, or ocular application.

11. The method of claim 8, wherein the viral respiratory infection is any one or combination of coronavirus, influenza, influenza A, influenza B, SARS-CoV-1, SARS-CoV-2, MERS-CoV or rhinoviruses.

12. The method of claim 8, wherein the composition is used as a treatment for the viral respiratory infection, a therapy for the viral respiratory infection, a prophylactic for the viral respiratory infection, and/or a preventive measure for contracting the viral respiratory infection.

13. The method of claim 8, wherein the treatment involves administering the composition as a treatment for the viral respiratory infection and/or a prophylactic for the viral respiratory infection before, during, and/or after the patient is first diagnosed with the viral respiratory infection and/or before, during, and/or after the patient is hospitalized due to the viral respiratory infection.

14. The method of claim 12, wherein the composition is further used as a treatment for prostate cancer, castration-resistant prostate cancer, metastatic castration-sensitive prostate cancer, non-metastatic castration-resistant prostate cancer and/or benign prostatic hyperplasia.